

What is claimed is:

1 1. A nozzle assembly of a dishwasher having first and second racks for holding
2 items to be washed, the nozzle assembly including:

3 a first nozzle, rotatably installed adjacent the first rack, for selectively spraying water
4 in first and second directions, said first nozzle comprising:

5 means for manually setting the spraying direction of said first nozzle.

1 2. The nozzle assembly as claimed in claim 1, further comprising a water
2 circulating means, communicating with said first nozzle, for supplying under pressure the
3 water to be sprayed and for rotating said first nozzle by the pressure of the supplied water.

1 3. The nozzle assembly as claimed in claim 2, said first nozzle further
2 comprising:

3 a fixed central piece, communicating with said water circulating means, having two
4 open ends; and

5 first and second nozzle sections, communicating with said fixed central piece and
6 each having a closed end and an open end, the closed end of each nozzle section being
7 rotatably coupled to one open end of said fixed central piece.

1 4. The nozzle assembly as claimed in claim 3, wherein said first and second
2 nozzle sections are rotated using said manual setting means.

1 5. The nozzle assembly as claimed in claim 3, wherein said fixed central piece

2 and said first and second nozzle sections are symmetrical about a horizontal plane passing
3 through the axis of said first nozzle.

1 6. The nozzle assembly as claimed in claim 3, wherein one of said first and
2 second nozzle sections is rotatable by a manipulation of the other.

1 7. The nozzle assembly as claimed in claim 3, said top nozzle further
2 comprising a pair of O-rings respective installed at connecting surfaces between said fixed
3 central piece and said first and second nozzles.

1 8. The nozzle assembly as claimed in claim 7, wherein the open ends of said
2 fixed central piece each have a stepped surface for receiving one of said pair of O-rings.

1 9. The nozzle assembly as claimed in claim 7, wherein said pair of O-rings are
2 made of a rubber based material for preventing water leakage at the connecting surfaces and
3 for resisting rotation during operation of the nozzle assembly.

1 10. The nozzle assembly as claimed in claim 1, further comprising a second
2 nozzle, rotatably installed adjacent the second rack, for directing water toward the second rack.

1 11. The nozzle assembly as claimed in claim 10, further comprising a water
2 circulating means, communicating with said second nozzle, for supplying under pressure the
3 water to be sprayed and for rotating said second nozzle by the pressure of the supplied water.

1 12. The nozzle assembly as claimed in claim 10, wherein the first and second
2 racks are top and bottom racks, respectively, and said first and second nozzles are top and
3 bottom nozzles, respectively.

1 13. The nozzle assembly as claimed in claim 10, wherein said first and second
2 nozzles are disposed parallel to the first and second racks, respectively.

1 14. The nozzle assembly as claimed in claim 1, wherein said first nozzle consists
2 of two sides and wherein a plurality of injection holes are formed on one side to spray water
3 in one direction.

1 15. The nozzle assembly as claimed in claim 1, wherein said manual setting
2 means provides for a 180° rotation about an axis of said first nozzle.